

## **NOTICE INVITING TENDER (NIT)**

### **1.1 GENERAL**

#### **1.1.1 Name of Work:**

Delhi Metro Rail Corporation (DMRC) Ltd. invites Open e-Tenders on international competitive bidding (ICB) basis from eligible applicants from all countries and all areas, who fulfil *qualification criteria* as stipulated in clause 1.1.4 of NIT, for the scope

**“Comparative Studies for 25 kV BT/RC and 25 kV AT system considering line 2A, 2B and line 7 together of Mumbai Metro & Design of 25 kV Overhead Equipment (OHE) system for elevated line and Power Supply & SCADA for Dahisar(E) – D.N. Nagar line 2A of Mumbai Metro Network including checking of Design of Receiving Substations and Design Validation under the CONTRACT PACKAGE – MEDD-01”**

#### **1.1.2 Key details:-**

**Approximate Cost of work = INR4.86 Cr. .**

Tender Security amount	<b>INR 4.86 Lakhs.</b>
Expected Completion period of the Work	a. 52 weeks for Design and b. Up to ROD of respective corridors or commissioning of system (whichever is later) for “Services to be performed during Construction “as mentioned in clause 10.0 of ITT
Tender documents on sale	From <b>05.10.2016 to 16.11.2016</b> (upto 17:00 hrs) on e-tendering website <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> Tender document can only be obtained after registration of tenderer on the website <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> . For further information on this regard bidders are advised to contact on 011-23417910 or 011-23417920 or 0120-4200462, 0120-4001002 or 91 8826246593.
Cost of Tender documents	INR 21,000/- (inclusive of 5% DVAT) Non-Refundable (Demand Draft /Banker’s cheque) in favour of “Delhi Metro Rail Corporation Ltd” payable at New Delhi.)  Cost of tender documents i.e., D.D./Banker’s cheque, in original, shall be accepted only up to 17:00 hours on <b>16.11.2016</b> in the office of Executive Director/Electrical – II at below mentioned address.
Last date of Seeking Clarification	14.10.2016 (Queries from bidders after due date shall not be acknowledged)

Pre-bid Meeting	<b>21.10.2016 @ 1500 Hrs</b>
Last date of issuing addendum	<b>28.10.2016</b>
Date & time of Submission of Tender	<b>16.11.2016 @ 17:00 Hrs.</b>
Date & time of opening of Tender	<b>17.11.2016 @ 15:00 Hrs.</b>
Authority and place for purchase of tender documents, seeking clarifications and submission of completed tender documents	<b>Executive Director/Electrical-II,</b> Delhi Metro Rail Corporation, 7th floor, B-Wing, Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi –110 001

**1.1.3 Source of Funds: This project is being funded by MMRDA, Mumbai**

**1.1.4 QUALIFICATION CRITERIA:**

**1.1.4.1 Eligible Applicants:**

- (i) A Tenderer may be from any country and all areas either a single entity or any combination of entities in the form of a joint venture or association (JVA) or Consortium under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent. In the case of a JVA / Consortium, all partners shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms; and the JVA / Consortium shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the partners of the JVA/ Consortium during the tendering process and, in the event the JVA/ Consortium is awarded the Contract, during contract execution.

- (ii) (a) Anon-Indian firm is permitted to tender only in a joint venture or consortium arrangement with any other Indian firm having minimum participation interest of 26% or their wholly owned Indian subsidiary registered in India under Companies Act-1956 with minimum 26% participation

**(b)** A tenderer shall submit only one bid in the same tendering process, either individually as a tenderer or as a partner of a JV. A tenderer who submits or participates in, more than one bid will cause all of the proposals in which the tenderer has participated to be disqualified. No tenderer can be a subcontractor while submitting a bid individually or as a partner of a JV in the same bidding process. A tenderer, if acting in the capacity of subcontractor in any bid, may participate in more than one bid, but only in that capacity. However, bidders may propose vendors as per vendor approval procedure provided in the tender documents and vendors will not be treated as subcontractors, for the purpose of this clause only.

- (iii) A Tenderer and all partners constituting the Tenderer shall not have a conflict of interest. All Tenderers found to have a conflict of interest shall be disqualified. A Tenderer may be considered to have a conflict of interest with one or more parties in this tendering process, if:

- a. Tenderer and all partners constituting the Tenderer has been engaged by the Employer to provide consulting services for the preparation related to procurement for or implementation of the project;
  - b. Tenderer and all partners constituting the Tenderer is any associates / affiliates (inclusive of parent firms) mentioned in subparagraph (a) above; or
  - c. A Tenderer and all partners constituting the Tenderer lends, or temporarily seconds its personnel to firms or organizations which are engaged in consulting services for the preparation related to procurement for or implementation of the project, if the personnel would be involved in any capacity on the same project.
- (iv) A firm, who has purchased the tender document in their name, can submit the tender either as individual firm or in joint venture/Consortium. However, the lead partner in case of JV shall be one who has experience of Design of 25 kV Overhead Equipment (OHE) system, Power Supply and SCADA or similar Electrical design work.
- (v) Any Central / State government department / public sector undertaking / other government entity or local body must not have banned business with the tenderer (any member in case of JV) as on the date of tender submission. Also no contract of the tenderer should have been rescinded / terminated by DMRC after award during last 5 years due to non-performance of the tenderer or any of JV/Consortium members. The tenderer should submit undertaking to this effect in **-Appendix 6** of Form of Tender.
- (vi) Tenderer (any member in case of JV/consortium) must not have paid liquidated damages of 10% (or more) of the contract value in a contract due to delay or penalty of 10% (or more) of the contract value due to any other reason during last five years. The tenderer should submit undertaking to this effect in **Appendix-14** of Form of Tender.
- (vii) Tenderer (any member in case of JV/consortium) must not have suffered bankruptcy/ insolvency during the last 5 years. The tenderer should submit undertaking to this effect in **Appendix-12A** of Form of Tender.
- (viii) **LEAD PARTNER/NON SUBSTANTIAL PARTNERS/CHANGE IN JV/CONSORTIUM**
- a. Lead partner must have a minimum of 26% participation in the JV/Consortium.
  - b. Partners having less than 26% participation will be termed as non-substantial partner and will not be considered for evaluation which means that their financial soundness and work experience shall not be considered for evaluation of JV/Consortium.
  - c. In case of JV/Consortium, change in constitution or percentage participation shall not be permitted at any stage after their submission of application otherwise the applicant shall be treated as non-responsive.

#### 1.1.4.2 Minimum Eligibility Criteria:

**A. Work Experience:** The tenderers will be qualified only if they have completed work(s) during last ten years ending **31.08.2016** as given below:

*The work involves designs/drawing of the following major areas: -*

1. 25kV (BT/RC and AT) Flexible OHE
2. Substations:
  - a. 220/110/25 kV
  - b. 220/110/33 kV
  - c. 33 kV/LT
  - d. HT cabling
3. SCADA
4. Interface with Civil works such as:
  - a. Earthing and bonding works on MRTS viaduct

- b. *Earthing arrangements at stations, Receiving Substations(RSS) & Auxiliary Substations (ASS)*
- c. *Cable Duct on Viaduct and stations.*
- d. *OHE mast drop arm holding arrangements on stations/viaduct.*

*The tenderer is required to submit their design experience in (i) & at least in any two of (ii), (iii) & (iv) areas of having designed at least the following in last 10 years:*

- i) *The tenderer should have designed*
  - *at least 15 track kms. of 25 kV OHE works on viaduct and long-bridges or at least 25 track kms. of 25 kV OHE works on other mainlines and sub urban sections&*
  - *at least one work of 25 kV AT System.**The above information should be submitted project-wise in Appendix 13 & summary in Appendix 13A of FOT.*
- ii) *The tenderer should have designed at least One (1) nos. 66 kV or above substations and at least Five (5) nos. of 33 kV/415 V to 11 kV/415 V (i.e. 11 kV or above voltage level upto 33 kV) substations. The above information should be submitted project-wise in Appendix 13 & summary in Appendix 13A of FOT.*
- iii) *The tenderer should have designed at least One (1) SCADA works for tractions and power supply in any railway system. The above information should be submitted project-wise in Appendix 13 & summary in Appendix 13A of FOT.*
- iv) *The tenderer should have designed interfaces with civil works in at least one metro project, the details of which should be clearly brought out in Appendix 13B of FOT.*

*Kindly note that it is desirable that the tenderer has design competence in all the above four core areas. However, in case, he has competence in only OHE and substation areas, he would be required to clearly explain the proposal for the balance areas in the offer along with proof of his meeting the above requirement in the relevant field. The documentary evidence of the design experience in all the core areas shall be submitted.*

Notes:

- The tenderer shall submit details of works executed by them in the Performa of **Appendix 11& 12 of FOT** for the works to be considered for qualification of work experience criteria. Documentary proof such as completion certificates from client clearly indicating the nature/scope of work, actual completion cost and actual date of completion for such work should be submitted. **The offers submitted without this documentary proof shall not be evaluated.** In case the work is executed for private client, copy of work order, bill of quantities, bill wise details of payment received certified by C.A., T.D.S certificates for all payments received and copy of final/last bill paid by client shall also be submitted.
- Value of successfully completed portion of any ongoing work up to **31.08.2016** will also be considered for qualification of work experience criteria.
- For completed works, value of work done shall be updated to **31.08.2016** price level assuming 5% inflation for Indian Rupees every year and 2% for foreign currency portions per year. The exchange rate of foreign currency shall be applicable 28 days before the submission date of tender.
- In case of joint venture / Consortium, full value of the work, if done by the same joint venture shall be considered. However, if the qualifying work(s) were done by them in JV/Consortium having different constituents, then the value of work as per their percentage participation in such JV/Consortium shall be considered.

**B. - Financial Standing:** The Tenderers will be qualified only if they have minimum financial capabilities as below:

- (i) **T4 - Annual Turnover:** The average annual turnover of last five financial years should be  $\geq 3.89$  Cr.

The average annual turnover of JV will be based on percentage participation of each member.

Example: Let Member-1 has percentage participation = M and Member - 2 has =N. Let the average annual turnover of Member-1 is 'A' and that of Member-2 is 'B', then the average annual turnover of JV/JVA/Consortium will be

$$\frac{=AM+BN}{100}$$

**Notes:**

- Financial data for latest last five audited financial years has to be submitted by the tenderer in **APPENDIX 10** OF FOT along with audited balance sheets. The financial data in the prescribed format shall be certified by Chartered Accountant with his stamp and signature. In case audited balance sheet of the last financial year is not made available by the bidder, he has to submit an affidavit certifying that 'the balance sheet has actually not been audited so far'. In such a case the financial data of previous '4' audited financial years will be taken into consideration for evaluation. If audited balance sheet of any other year than the last year is not submitted, the tender will be considered as non-responsive.
- Where a work is undertaken by a group, only that portion of the contract which is undertaken by the concerned applicant/member should be indicated and the remaining done by the other members of the group be excluded. This is to be substantiated with documentary evidence.

**1.1.4.3 Bid Capacity Criteria:**

**Bid Capacity:** The tenderers will be qualified only if their available bid capacity is more than the approximate cost of work as per NIT. Available bid capacity will be calculated based on the following formula:

Bid capacity will be calculated based on the following formula:

$$\text{Available Bid Capacity} = 2 * A * N - B$$

Where,

A = Maximum of the value of Consultancy work executed in any one year during the last five financial years (updated to 31.08.2016 price level assuming 5% inflation for Indian Rupees every year and 2% for foreign currency portions per year).

N = No. of years prescribed for completion of the work

B = Value of existing commitments and on-going works to be completed during next 1 year.

**Notes:**

- Financial data for latest last five financial years has to be submitted by the tenderer in **APPENDIX 10** of FOT along with audited financial statements. The financial data in the prescribed format shall be certified by the Chartered Accountant with his stamp and signature in original.

- Value of existing commitments for on-going construction works during period of **12 months and further years w.e.f. 01.09.2016** has to be submitted by the tenderer in **APPENDIX 11 OF FOT**. These data shall be certified by the Chartered Accountant with his stamp and signature.

In the case of a group, the above formula will be applied to each member to the extent of his proposed participation in the execution of the work. If the proposed % is not provided, equal participation will be assumed.

**Example for calculation of bid capacity in case of JV / Group**

Suppose there are ‘P’ and ‘Q’ members of the JV / group with their participation in the JV / group as 70% and 30% respectively and available bid capacity of these members as per above formula individually works out ‘X’ and ‘Y’ respectively, then Bid Capacity of JV / group shall be as under:

**Bid Capacity of the JV / group = 0.7X + 0.3Y**

1.1.4.4 The tender submission of Tenderers, who do not qualify the minimum eligibility criteria & bid capacity criteria stipulated in the clauses 1.1.4.1 to 1.1.4.3 above, shall not be considered for further evaluation and therefore rejected. The mere fact that the tenderer is qualified as mentioned in sub clause 1.1.4.1 to 1.1.4.3 shall not imply that his bid shall automatically be accepted. The same should contain all technical data as required for consideration of tender prescribed in the ITT.

1.1.4.5 **Minimum Key Staff requirement** – The tenderer should be able to mobilize a project team as per the Educational/professional profile given in the Appendix 13C of FOT.

1.1.4.6 **Project Organization should be as under:**

S. No.	Description	Requirement (in nos.)	Experience Required	Minimum Period Deployment (month)	Time of (Man
1	Project Manager	1	10 Years	48	
2	Design Engineer (OHE)	1	Total experience of 8 years in 25 kV OHE, with at least minimum 2 Years’ experience in at least 1 Project of 25 kV ac AT (Autotransformer) traction System	18	
3	Design Engineer (PSI* & Distribution)	1	8 Years in PSI	18	
4	Design Engineer (SCADA)	1	5 Years in SCADA	6	
5	Civil & Structural Engineer	1	5 Years in Civil	6	
6	Design Engineer (25kV Static Frequency converter)	1	5 Years in SFC	3	

\*PSI--- Power Supply Installation

1.1.4.7 For further additional details and clauses refer to tender clauses 3.2.2 in ITT and FOT (Appendix 13 C) and other tender clauses.

1.1.4.8 Only those applicants who meet all the above criteria viz. financial, technical and

Project Organization, will be considered for further evaluation.

**1.1.5 The Tender documents consist of:**

**Volume 1**

- Notice Inviting Tender
- Instructions to Tenderers (including Annexure)
- Form of Tender (including Appendices)
- General Conditions of Contracts
- Special Conditions of Contract (including Schedules)

**Volume 2**

- Scope of Work
- Design Criteria

**Volume 3**

- Financial Package

- 1.1.6 The Tenderers may obtain further information/ clarification, if any, in respect of these tender documents from the authority defined in the Key details above.
- 1.1.7 The intending tenderers must be registered on e-tendering portal <https://eprocure.gov.in/eprocure/app>. Those who are not registered on the e-tendering portal shall be required to get registered beforehand. If needed they can be imparted training on 'online tendering process'. After registration the tenderer will get user id and password. On login tenderer can participate in tendering process and can witness various activities of the process.
- 1.1.8 The authorized signatory of intending tenderer, as per Power of Attorney (POA), must have valid *class-III* digital signature. The tender document can only be downloaded or uploaded using Class-III digital signature of the authorized signatory.
- 1.1.9 Tender submissions will be made online after uploading the mandatory scanned documents towards cost of tender documents such as Demand Draft or Pay Order or Banker's Cheque from a Scheduled commercial bank based in India and towards Tender Security such as Bank Guarantee or Demand Draft or Pay Order or Banker's Cheque from a Scheduled commercial bank based in India and other documents as stated in the tender document.
- 1.1.10 The "Original" of this Tender Security is to be submitted in a separate sealed envelope in the office of the Executive Director/Electrical – II at the address given in the Tender Documents before date & time of submission of tender mentioned in the NIT. Offers submitted without the Tender Guarantee or with invalid Bank Guarantees shall be rejected outright.
- 1.1.11 All Tenderers are hereby cautioned that tenders containing any material deviation or reservations as described in Clause **7.4.4** of "Instructions to Tenderers" and/or minor

deviation without quoting the cost of withdrawal shall be considered as non-responsive and is liable to be rejected.

- 1.1.12 Late tenders (received after date and time of submission of bid) shall not be accepted under any circumstances.
- 1.1.13 Tenders shall be valid for a period of **180 days** (both days inclusive i.e. the date of submission of tender and the last date of period of validity of the tender) from the date of submission of Tenders and shall be accompanied with a tender security of the requisite amount as per clause 5.0 of ITT.
- 1.1.14 DMRC reserves the right to accept or reject any or all proposals without assigning any reasons. No tenderer shall have any cause of action or claim against the DMRC for rejection of his proposal.
- 1.1.15 Bidders shall note that the maximum file size that can be uploaded is 5 MB. All the uploaded files in tender submission should be named properly and arrange systematically
- 1.1.16 The bidders are advised to keep in touch with e-tendering portal <https://eprocure.gov.in/eprocure/app> for updates.

**Executive Director/ Electrical – II**  
**Delhi Metro Rail Corporation limited**